

Amendments to the Claims:

The following listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) An ink jet recording apparatus comprising a plurality of nozzles for discharging a functional liquid, said apparatus comprising:

a supply port;

a plurality of nozzle groups into which said plurality of nozzles are divided, the number of nozzle groups being fewer than the number of said nozzles, wherein each group contains nozzles located next to each other, and

a drive controller configured to regulate discharge quantity and flight speed of said functional liquid discharged from said nozzles for each nozzle group by voltage level applied to piezoelectric elements corresponding to said nozzles,

wherein said drive controller determines a waveform for each nozzle group based on a distance between the supply port and each nozzle group, thought to exhibit a mutually similar discharge trend among said nozzle groups.

2. (Previously Presented) The ink jet recording apparatus according to claim 1, wherein said functional liquid is ink that is usable to manufacture a color filter.

3. (Previously Presented) The ink jet recording apparatus according to claim 1, wherein said functional liquid is a solution of electroluminophor that is usable to manufacture an EL element substrate.

4. (Previously Presented) The ink jet recording apparatus according to claim 1, wherein said functional liquid is an electrically conducting particle dispersion solution that is usable to manufacture a substrate comprising a conducting wiring pattern.

5. (Previously Presented) The ink jet recording apparatus according to claim 1, wherein positions on ink jet head on which said plurality of nozzles is arranged are divided

into a plurality of areas, and nozzles belonging to each area are made to belong to a single group.

6. (Previously Presented) The ink jet recording apparatus according to claim 1, wherein said ink jet head on which said plurality of nozzles is arranged comprises cavities provided for each of said nozzles, a reservoir communicating to said cavities and common to said nozzles, and a supply port for supplying said functional liquid to said reservoir; and

wherein said plurality of groups comprise at least a first group comprising nozzles of said plurality of nozzles positioned close to said supply port, and a second group comprising nozzles of said plurality of nozzles positioned far from said supply port.

7. (Currently Amended) A method for manufacturing a functional liquid applied substrate by an ink jet recording apparatus that has a plurality of nozzles capable of discharging a functional liquid, comprising the steps of:

dividing said plurality of nozzles into a plurality of nozzle groups, the number of nozzle groups being fewer than number of said nozzles, wherein each group contains nozzles located next to each other;

regulating with a drive controller, for each nozzle group, voltage level applied to piezoelectric elements corresponding to said nozzles to control discharge quantity and flight speed of said functional liquid from said nozzles;

determining with the drive controller, a waveform for each nozzle group based on a distance between a supply port and each nozzle group, thought to exhibit a mutually similar discharge trend among said nozzle groups; and

discharging said functional liquid into pixels formed on a substrate.

8. (Original) The method for manufacturing a functional liquid applied substrate according to claim 7, wherein positions on ink jet head on which said plurality of nozzles is

arranged are divided into a plurality of areas, and nozzles belonging to each area are made to belong to a single group.

9. (Previously Presented) The method for manufacturing a functional liquid applied substrate according to claim 7,

wherein said ink jet head on which said plurality of nozzles is arranged comprises cavities provided for each of said nozzles, a reservoir communicating to said cavities and common to said nozzles, and a supply port for supplying said functional liquid to said reservoir; and

wherein said plurality of groups comprise at least a first group comprising nozzles of said plurality of nozzles positioned close to said supply port, and a second group comprising nozzles of said plurality of nozzles positioned far from said supply port.

10. (Previously Presented) A method for manufacturing a device comprising a functional liquid applied substrate manufactured by the method according to claim 7.

11. (Original) A method for manufacturing electronic equipment wherein an electro-optical apparatus manufactured by the method according to claim 10 is used.

12. (Previously Presented) A device comprising a functional liquid applied substrate manufactured by the method according to claim 7.

13. (Previously Presented) The inkjet recording apparatus according to claim 1, wherein the voltage level applied to piezoelectric elements is different for at least two groups of the plurality of groups.

14. (Previously Presented) The method for manufacturing a functional liquid applied substrate according to claim 7, wherein the voltage level applied to piezoelectric elements is different for at least two groups of the plurality of groups.